

1/25

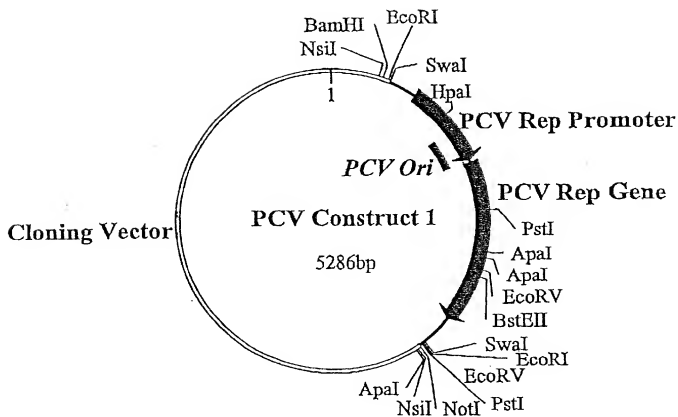


Figure 1

2/25

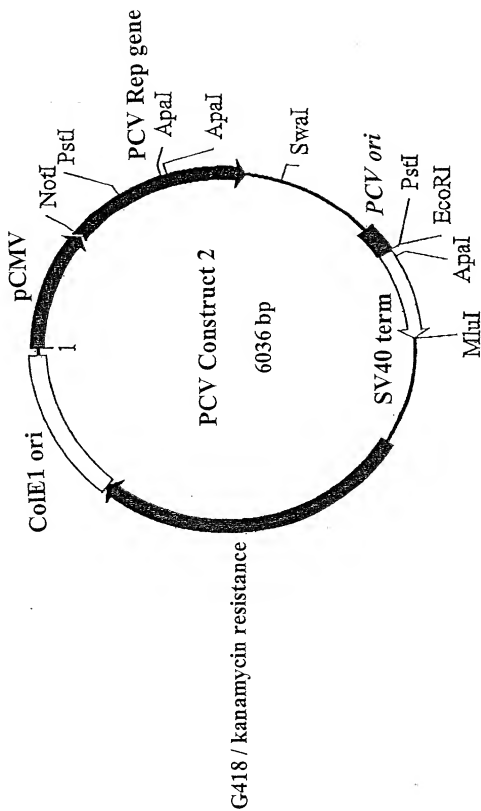


Figure 2

3/25

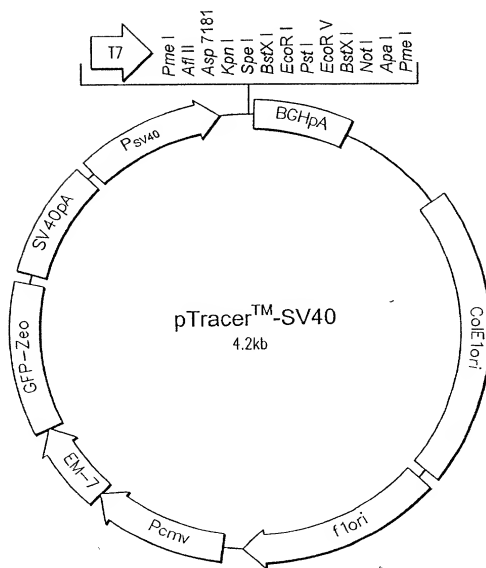


Figure 3

4/25

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20



Replicating
DNA forms,
undigested by
DpnI.

Input DNA
digested with
DpnI.

Figure 4

5/25

ORIGIN

1 AGCGCCCAAT ACGCAAACCG CCTCTCCCAG CGCGTTGGCC GATTCAATTA TGCAGCTGGC
 61 ACGACAGGTT TCCGCACTGG AAAGCGGGCA GTGAGCGCAA CGCAATTAAT GTGAGTTAGC
 121 TCACCTCATTA GGCACCCAG GCTTTACACT TTATGCTTCC GGCTCGTATG TTGTGGTGAA
 181 TTGTGAGCGG ATACAATTT CACACAGGAA ACAGCTATGA CCATGATTAC CGCAGCTAT
 241 TTAGGTGACA CTATAGAATA CTCAGCTAT GCATCAAGCT TGTCACCGAG CTGGATCCCA
 301 CTAGTAACCG CCGCAGCTGT GCTGGAATTC GCCTTTAATT AAATGGAGCC ACAGCTGGTT
 361 TCTTTTATTA TTTGGGTGGA ACCAATCAAT TGTTTGGTCC AGCTCAGGTT TGGGGGTGAA
 421 TGACCTGGAG TGGTAGGTAA AGGGCTGCCT TATGGTGTGG CGGGAGGAGT AGTTAATATA
 481 GGGTCTATAG GCCAAGTTGG TGGAGGGGGT TACAAAGTTG GCATCCAAGA TAACAACAGT
 541 GGACCCAACA CCTCTTTGAT TAGAGGTGAT GGGGTCCTCG GGGTAAAAAT CATATTAGC
 601 CTTTCTAATA CGGTAGTATT GGAAGGATAG GGGTAGGGGG TTGGTCCGCC CTGAGGGGGG
 661 GAGGAACCTG CCGATGTTGA ATTTGAGGTA GTTAACATTC CAAGATGGCT GCGAGTATCC
 721 TCTTTTATTA GTGAGTACAA ATTCTGTAGA AAGGCGGGAA TTGAAGATAC CCGTCTTTCG
 781 GCGCCATCTG TAACGGTTTC TGAAGCGGG GTGTGCCAAA TATGCTCTTC TCCGAGGAT
 841 GTTTCCAAGA TGGCTGCGGG GCGGGGTCCT TCTTCTGCGG TAACGCCCTCC TTGGCCACGT
 901 CATCCTATAA AAGTGAAAGA AGTGGCTGCG TGTAAGTATTA ACAGCGCACT TCGGCGAGCG
 961 GAGCACTCG CAGCCGTCAG TGAAAATGCC AAGCAAGAAA CGCGGCCGCG AACCCCATTA
 1021 GAGGTGGGTG TTCAACCTTA ATAATCCTTC CGAGAGGAGG AAAAACAATA TACGGAGGCT
 1081 TCAACTCTCC CTTTTTGATT ATTTTGTGTT CGGAGAGGAA GGTITGGAGG AGGTTAGAAC
 1141 TCTCTACCTC CAGGGGTTTG CGAATTTTGC TAAGAAGCAG ACTTTTAACA AGGTGAAGTG
 1201 GTATTTTGGT GCTCCGTGCC ACATCGAGAA AGCGAAAGGA ACCGACCAGC AGAATAAAGA
 1261 ATACTGCAGT AAGAAGGCC ACATACTTAT CGAGTGTGGA GCTCCCGGGA ACCAGGGGAA
 1321 GCGCAGCGAC CHTGCTACTG CTGTGAGTAC CCTTTTGGAG ACGGGGTCTT TGGTGAAGT
 1381 AGCCGAGCAG TTCCCTGTAA CGTATGTGAG AAATTTCCGC GGGCTGGCTG AACTTTTGAA
 1441 AGTGAGCGGG AAGATGCAGC AGCGTGATTG GAAGACAGCT GTACAGCTCA TAGTGGGCCC
 1501 GCCCGBTGTT GGAAGAGGCC AGTGGGCCCG TAATTTTGCT GAGCCTAGGG ACACCTACTG
 1561 GAAGCCTAGT AGAAATAAGT GGTGGGATGG ATATCATGGA GAAGAAAGTT TTGTTTGGGA
 1621 TGATTTTTAT GGCTGGTTAC CTTGGGATGA TCTACTGAGA CTGTGTGACC GGTATCCATT
 1681 GACTGTAGAG ACTAAAGGGG GTACTGTTCC TTTTITGGCC CGCAGTATTT TGAATTACAG
 1741 CAATCAGGCC CCCAAGGAAT GGTACTCCTC AACTGCTGTG CAGCTGTGAG AAGCTCTCTA
 1801 TCGAGGAGAT ACTACTTTGC AATTTTGGAA GACTGTCTGA GAACAATCCA CGGAGGTACC
 1861 CGAAGGCCGA TTTGAAGCAG TGGACCCACC CTGTGCCCTT TTCCCATATA AATAAATTA
 1921 CTGAGTCTTT TTTGTTATCA CATCGTAATG GTTTTTTATT TTATTTTATT AGAGGTCCTT
 1981 TAGGATATAA TTCTCTGAAT TGTACATAAA TAGTCAGCCT TACCACATAA TTTTGGGCTG
 2041 TGGCTGCATT TTGGAGCGCA TAGCCGAGGC CTGTGTGCTC GACATTGGTG TGGGTATTTA
 2101 AAAAGGCGCA GTTCTGCAGA TATCCATCAC ACTGGCGGCC GCTCGAGCAT GCATCTAGAG
 2161 GCGCCAATTC CCCCATAGT GAGTCTGATT ACAATTCACT GGCTCTCGTT TTACAACTGC
 2221 GTGACTGGGA AAACCTTGGC GTTACCCAAC TTAATGCGCT TGCAGCAGAT CCCCCTTTTC
 2281 CCAGCTGGCG TAATAGCGAA GAGGCCCGCA CCGATCGCCC TTCCCAACAG TTGCGCAGCC
 2341 TATAGCTGAC GAGCTTTAAG GTTTACACCT ATAAAAGAGA GAGCCGTTAT CGTCTGTTTG
 2401 TGGATGTACA GAGTGATATT ATTGACAGCG CGGGCGCAGC GATGGTGTAT CCCC TGCCCA
 2461 GTGCACTGCT GCTGTAGAT AAAGTCTCCC GTGAACCTTA CCGGTGGGTG ACCTGCGGG
 2521 ATGAAAGCTG GCGCATGATG ACCACCGATA TGCGCAGTGT GCGCGTCTT GTTATCGGGG
 2581 AAGAAGTGGC TGATCTCAGC CACCGCGAAA ATGACATCAA AAACGCCATT AACCTGATGT
 2641 TCTGGGGAAT ATAATGTCA GGCATGAGAT TATCAAAAAG GATCTTACC TAGATCCTTT
 2701 TCACGTAGAA AGCCAGTCCG CAGAAACGGT GCTGACCCCG GATGAATGTC AGCTACCTGG
 2761 CTATCTGGAC AAGGGAANAAC GCAAGCGCAA AGAGAAAGCA GGTAGCTTGC AGTGGGCTTA
 2821 CATGCGGATA GCTAGACTGG CCGGTTTTAT GGACAGCAAG CGAACCGGAA TTGCCAGCTG
 2881 GGGCGCCCTC TGTAAGGTTT GGAAGGCCCT GCAAAGTAA CTTGATGGCT TTCTCGCCGC
 2941 CAAGGATCTG ATGCGCGCAG GGATCAAGCT CTGATCAAGA GACAGGATGA GGATCGTTTC

Figure 5-1

6/25

3001 GCATGATTGA ACAAGATGGA TTGCACGCAG GTTCTCCGGC CGCTTGGGTG GAGAGGCTAT
3061 TCGGCTATGA CTGGGCACAA CAGACAATCG GCTGCTCTGA TGCCCGCGTG TTCCGCGTGT
3121 CAGCGCAGGG GCGCCCGGTT CTTTTTGTC AAGACCGACT GTCCCGTGCC CTGAATGAAC
3181 TGCAAGAGCA GGCAGCGCGG CTATCGTGGC TGCCCGCGAC GGGCGTTCTT TGCCGAGCTG
3241 TGCTCGAGCT TGTCACGTAA GCGGGAAGGG ACTGCTGCT ATTGGGCGAA GTGCCGCGGC
3301 AGGATCTCCT GTCATCTCAC CTTGCTCTGT CCGAGAAAGT ATCCATCATG GCTGATGCAA
3361 TGCGGCGGCT GCATACGCTT GATCCGGCTA CCGTCCCAT CGACACCAA GCGAAACATC
3421 GCATCGAGCG AGCACGTACT CGGATGGGAG CCGGTCTTGT CGATCAGGAT GATCTGGACG
3481 AAGAGCATCA GGGGCTCGCG CCAGCCGAAC TGTTCCGAG GCTCAAGGCG AGCATGCCCG
3541 ACGGCGAGGA TCTCGTCGTG ACCCATGGCG ATGCGTGTCT GCCGAATATC ATGGTGGAAA
3601 ATGGCGGCTT TTCTGGATTG ATCGACTGTG GCCGCTGGG TGTGCGCGAC CGCTATCAGG
3661 ACATAGCGTT GGCTACCCGT GATATTGCTG AAGAGCTTGG GCGCGAATGG GCTGACCGCT
3721 TCCTCGTGCT TTACGGTATC GCGCTCCCG ATTCGCGAGG CATCGCTTTC TATCGCCTTC
3781 TTGACGAGTT CTTCGGAATT ATTAACGCTT ACAATTTCTT GATGCGGTAT TTCTCCTTA
3841 CGCATCTGTG CGGTATTTC AACCAGCATC AGGTGGCACT TTTCGGGAAA ATGTGCGCGG
3901 AACCCTATT TGTTTATTTT TCTAAATACA TTCAAATATG TATCCGCTCA TGAGACAATA
3961 ACCCTGATAA ATGCTTCAAT AATAGCACGT GAGGAGGGCC ACCATGGCCA AGTTGACCGA
4021 TGCCGTTCCG GTGCTCACCG CGCGCGAGCT CGCCGGAGCG CTCTGAGTCT GACACGACCG
4081 GCTCGGGTTC TCCCGGGACT TCGTGAAGCA CGACTTCGCC GGTGTGTCCT GGGACGACGT
4141 GACCCGTGTC ATCAGCGCGG TCCAGGACCA GGTGTGTCGG GACCAACACC TGCCCTGGGT
4201 GTGCTGTGCG GCGCTGGACG AGCTGTACCG CGAGTGGTCC GAGGTCTGTG CCACGAACCT
4261 CCGGGACGCG TCCGGGCGCG CCATGACCGA GATCGGCGAG CAGCCGTGGG GCGCGGAGTT
4321 CGCCCTGCGC GACCCGGCGG GCAACTGCGT GCACTTCGTG GCGGAGGAGC AGGACTGACA
4381 CGTGCTAAAA CTTCATTTTT AATTTAAAA GATCTAGGTG AGATCTCTTT TTGATAATCT
4441 CATGACCAAA ATCCCTTAAC GTGAGTTTTT GTTCCACTGA GCGTCAGACC CGGTAGAAAA
4501 GATCAAAGGA TCTCTTGAG ATCCTTTTTT TCTGCGCGTA ATCTGCTGCT TGCAACAAA
4561 AAAACCAACG CTACCAAGCG TGGTTTGTGT GCGGATACAA GAGCTACCAA CTTCTTTTTCC
4621 GAAGGTAAC GGCCTCAGCA GAGCGCAGAT ACCAAATACT GTCTTCTAG TGTAGCCGTA
4681 GTTAGGCCAC CACTTCAAGA ACTCTGTAGC ACCGCTTACA TACCTCGCTC TGCTAATCCT
4741 GTTACCACTG GCTGCTGCCA GTGGCGATAA GTCGTGCTT ACCGGGTGG ACTCAAGACG
4801 ATAGTTACCG GATAAGGCGC AGCGGTCTGG CTGAACGGGG GGTCTGTGCA CACAGCCGAG
4861 CTTGGAGCGA ACGACCTACA CCGAACTGAG ATACCTACAG CGTGAGCTAT GAGAAAGCGC
4921 CAGCCTTCCC GAAGGGAGAA AGCGGGACAG GTATCCGTA AGCGGCGAGG TCGGAACAGG
4981 AGAGCGACCG AGGGAGCTTC CAGGGGGAAA CGCCTGGTAT CTTTATAGTC GTGTCGGGTT
5041 TCGCCACCTC TGACTTGAGC CTCGATTTTT GTGATGCTCG TCAGGGGGGG GAGGCTTATG
5101 GAAAACCGC AGCAACGCGG CTTTPTTACG GTTCTGTGCG TTTCGCTGCG CTTTGTCTCA
5161 CATGTTCTTT CCGCGCTTAT CCCCTGATTC TGTGGATAAC CGTATTACCG CCTTTGAGTG
5221 AGCTGATACC GCTCGCGCA GCGAACGAC CGAGCGCAGC GAGTCAGTGA GCGAGGAAGC
5281 GGAAG

Figure 5-2

7/25

1 GGATCGATCC GGCTGTGGAA TGTGTGTCAG TTAGGGTGTG GAAAGTCCCC AGGCTCCCCA
 61 GAGGCGAGAA GTATGCAAA CATGCATCAA GCTTGGTACC GAGCTCGGAT CCACATAGTAA
 121 CGGCGCGCAG TGTGCTGGAA TTCGCCCTTA TTTAAATGGA GCCACAGCTG GTTCTTTTAA
 181 TTAATTTGGGT GGAACCAATC AATTGTTTGG TCCAGCTCAG GTTTGGGGGT GAAGTACCTG
 241 GAGTGGTAGG TAAAGGGCTG CCTTATGGTG TGGCGGGAGG AGTAGTTAAT ATAGGGGTCA
 301 TAGGCCAAGT TGGTGGAGGG GGTACAAAG TTGGCATCCA AGATAACAAC AGTGGACCCA
 361 ACACCTCTTT GATTAGAGGT GATGGGCTCT CTGGGGTAAA ATTCATATTT AGCCTTTCTA
 421 ATACGGTAGT ATTGGAAGG TAGGGGTAGG GGGTTGGTGC CGCCTGAGGG GGGGAGGAAC
 481 TGGCCGATGT TGAATTTGAG GTAGTTAAAC TTCCAAGATG GCTGCGAGTA TCCTCCTTTT
 541 ATGGTGAGTA CAAATTTCTGT AGAAAGGCGG GAATTGAAGA TACCCGTCTT TCGGCGCCAT
 601 CTGTAAACGGT TTCTGAAGGC GGGGTGTGCC AAATATGGTC TTCTCCGGAG GATGTTTCCA
 661 AGATGGCTGC GGGGGCGGGT CCTTCTTCTG CGGTAACGCC TCCTTGGCCA GTCATCCTA
 721 TAAAAGTGAA AGAAGTGC GC TGTGTAGTA TTACAGCGC ACTTCGGCAG CGGCAGCACC
 781 TCGGCAGCGT CAGTGAAAAA GCCAAGCAAG AAAAGCGGCC CGCAACCCCA TAAGAGGTGG
 841 GTGTTTACCC TTAATAATCC TTCCGAGGAG GAGAAAAACA AAATACGGGA GCTTCCAATC
 901 TCCCTTTTGT ATTTATTTGT TTGCGGAGAG GAAGGTTTGG AAGAGGGTAG AACCTCTCAC
 961 CTCCACGGGT TGTGCAATTT TGCTAAGAAG CAGACTTTTA ACAAGGTGAA GTGGTATTTT
 1021 GGTGCCCGCT GCCACATCGA GAAAGCGAAA GGAACCGACC AGCAGATAAA AGAATACTGC
 1081 AGTAAAGAAG GCCACATACT TATCGAGTGT GGAGCTCCGC GGAACCGAGG GAAGCGCAGC
 1141 GACCTGTCTA CTGCTGTGAG TACCCTTTTG GAGACGGGGT CTTTGGTGAT GTGATCCGAG
 1201 CAGTTCCTGT TACGAATTTG GAGAAATTTT CGCGGGCTGG CTGCACTTTT GAAAGTGAGC
 1261 GGAAGATGC AGCAGCCTGA TTGGAAGACA GCTGTACAG TCATAGTGGG CCGGCCGGT
 1321 TGTGGGAAGA GCCAGTGGGC CGTAATTTT GCTGAGCCTA GGGACACCTA CTGGAAGCCT
 1381 AGTAGAAATA AGTGGTGGGA TGGATATCAT GGAGAAGAAG TTGTTGTTTT GGATGATTTT
 1441 TATGCTGGT TACCTTGGGA TGATCTACTG AGACTGTGTG ACCGGTATCC ATTGACTGTA
 1501 GAGACTAAAG GGGGTACTGT TCCTTTTTTG GCCCGCAGTA TTTGATTAC CAGCAATCAG
 1561 GCCCCCCAGG AATGTTACTC CTCAACTGCT GTCCCAGCTG TAGAAGCTCT CTATCGGAGG
 1621 ATTACTACTT TGCAATTTTG GAAGACTGCT GGAGAACAAT CCACGGAGGT ACCCGAAGGC
 1681 CGATTTGAGG CAGTGGACCC ACCCTGTGCC CTTTTCCTAT ATAAAAATA TTTACTGAGT
 1741 TTTTTTGTTA TCACATCGTA ATGGTTTTTA TTTTATTATA TTTAGAGGGT CTTTTAGGAT
 1801 AAATTTCTGT AATTGTACAT AAATAGTACG CCTTACCACA TTTTGTGGG CTGTGGCTGC
 1861 ATTTTGGAGC GCATAGCCGA GGCTTGTGTG CTCGACATTG GTGTGGGTAT TTAATAAAGG
 1921 GCGAATTCGT CAGATATCCA TCACACTGGC GGCGGCTCGA GTCTAGAGGG CCGGTTTAAA
 1981 CCGCTGATC AGCCTCGACT GTGCCTTCTA GTTGCCAGCC ATCTGTGTGT TGCCCTCCCC
 2041 CCGTGCCTTC CTTGACCTG GAAGGTGCCA CTCCTACTGT CTTTCTCTAA TAAATGAGG
 2101 AAATTGCATC GCATTTGCTG AGTAGGTGTC ATTCATTATT GGGGGTGGG GTGGGCGAGG
 2161 ACAGCAAGGC GGAGGATTGG GAAGACAATA GCAGGCATGC TGGGGATGCG GTGGGCTCTA
 2221 TGGCTTCTGA GCGCGAAAGA ACCAGCATGT GAGCAAAAAG CCAGCAAAAAG CCGGAGAAC
 2281 GTAAAAAGGC CGCGTGTCTG GCGTTTTTTC ATAGGCTCCG CCCCCCTGAC GAGCATCACA
 2341 AAAATCGACG CTCAGTCTAG AGGTGGCGAA ACCCGACAGG ACTATAAGA TACCAGGCTG
 2401 TTCCCCCTGG AAGCTCCCTC GTGCGCTCTC CTGTTCCGAC CCGTCCGCTT ACCGGATACC
 2461 TGTCCGCTTT TCTCCCTTCG GGAAGCGTGG CGCTTCTCA TAGCTCACGC TGTAGTATGC
 2521 TCAGTTCCGT GTAGGTGCTT CGCTCCAAGC TGGGCTGTGT GCACGAACCC CCGGTTGAGC
 2581 CCGACCGCTG CGCCTATACC GGTAACTACT GTCTTGAAGT CAACCCGGTA AGACACGACT
 2641 TGTGCGCACT GGCACGAGCC ACTGGTAACA GTTATAGCAG AGCGAGSTAT TAGGCGGGTG
 2701 CTACAGAGTT CTGTAAGTGG TGCGCTAACT ACGGCTACAC TAGAAGAGTA GTATTTGGGA
 2761 TCTGCGCTCT GCTGAAGCCA GTTACCTTCG GAAAAAGAGT TAGTGTACCT GTATCTGCTA
 2821 AACAAACCAC CCGTGTGTAGC GGTGTTTTT TGTGTTGCAA GCACGAGATT ACGGCGACGA

Figure 6-1

8/25

2881	AAAAAGGATC	TCAAGAAGAT	CCTTTGATCT	TTTCTACGGG	GTCTGACGCT	CAGTGGAAAG
2941	AAAACCTCAG	TTAAGGGATT	TTGGTCATGA	CATTAACTTA	TAAAAATAGG	CGTATCACGA
3001	GGCCCTTTCC	TCTCGCGCT	TTCCGGTGATG	ACGGTGAAAA	CCCTGTACAC	ATGCAGCTTCC
3061	CGGAGACGGT	CACAGCTTGT	CTGTAAGCGG	ATGCCGGGAG	CAGACAAAGCC	CGTCAGGGCG
3121	CGTCAGCGGG	TGTTTGGCGGG	TGTCGGGGCT	GGCTTAACTA	TGCGGCATCA	GACGAGATTG
3181	TACTAGAGAT	GCACCATATG	CGGTGTGAAA	TACCGCACAG	ATCGCTAAGG	AGAAAAATACC
3241	GCATCAGGCT	GCGCCCTGTA	GCGGCGCAAT	AAGCGCGGCG	GGGTGTGGTG	TTACGCGCAG
3301	CGTGACCGCT	ACACTTGGCA	GCGCCCTAGC	GCGCGCTCCT	TTCGCTTTCT	TCCCTTCCTT
3361	TCTCGCCAGC	TTCGCCGGCT	TTCCCGGTCA	AGCTCTAAAT	CGGGGCTCC	CTTTAGGGTG
3421	CCGATTAGT	GCTTTACGGC	ACCTCGACCC	CAAAAAACTT	GATTAGGGTG	ATGGTTCAAG
3481	TAGTGGGCCA	TGCGCCTGAT	AGACGGTTTT	TGCGCCCTTG	ACGTTGGAGT	CCACGTTCTT
3541	TAATAGTGGA	CTCTTGTTC	AAACTGGAAC	AACACTCAAC	CGTATCTCGG	TCTATTCTTT
3601	TGATTATATA	GGGATTTTGC	CGATTTCCGC	CTATTGGTTA	AAAAATGAGC	TGATTTAACA
3661	AAAAATTAAC	GCGAATTTTA	ACAAAAATAT	AACGCTTACA	ATTTCATTCT	GCCATTTCAGG
3721	CTGAAGTAGA	TCTAGAGTCC	GTTACATAAC	TTACGGTAAA	TGGCCCGCCT	GGCCAGCCGC
3781	CCAACGACCC	CCGCCCAATTG	ACGTCAATAA	TGACGTATGT	TCCCATAGTA	ACGCCAATAG
3841	GGACTTTCCA	TTGACGTCAA	TGGGTGGAGT	ATTTACGGTA	AACTGCCCAAC	TTGGCAGTAC
3901	ATCAAGTGTA	TCAATATGCCA	AGTACGCCCC	CTATTGACCT	CAATGACGGT	AAATGGCCCG
3961	CCTGGCATT	TGCCCGATAC	ATGACCTTAT	GGGACTTTCC	TACTTGGCAG	TACATCTACG
4021	TATTAGTCAT	CGCTATTACC	ATGGTGATGC	GGTTTGGGCA	GTACATCAAT	GGGCGTGGAT
4081	AGCGGTTTGA	CTCACGGGGA	TTTCCAAGTC	TCCACCCCAT	TGACGTCAAT	GGGAGTTTGT
4141	TTTGGCACCA	AAATCAACGG	GACTTTCCAA	AAATGTCGTA	CAACTCCGCG	CCATTGACGC
4201	AAATGGGCGG	TAGGCGTGTA	CGGTGGGAGG	TCTATATAAG	CAGAGCTCGT	TTAGTGAACC
4261	GTGAGATCGC	CTGGAGACGC	CATCCACGCT	GTTTTGACCT	CCATAGAAGA	CACCGGGACC
4321	GATCCAGCCT	CCGCGGCCGG	GAACGGTGCA	TTGGAACGGA	CCGTGTGAC	AATTAATCAT
4381	CGGCATAGTA	TATCGGCATA	GTATAATACG	ACAAGGTGAG	GAACATAACC	ATGGCTAGCA
4441	AAGGAGAAGA	ACTTTTCACT	GGAGTTGTCC	CAATTCTTGT	TGAATTAGAT	GGTGATGTTA
4501	ATGGGCACAA	ATTTTCTGTC	AGTGAGAGGG	GTGAAGGTGA	TGCTACATAC	GGAAAGCTTA
4561	CCCTTAAATT	TATTTGCACT	ACTGGAATAAC	TACCTGTTC	ATGGCCAAAC	CTTGTCACTA
4621	CTTTCTCTTA	TGGTGTTCAA	TGCTTTTCCC	GTATATCCGA	TCAATAGAAA	CGGCATGACT
4681	TTTTCAAGAG	TGCCATGCC	GAAGGTTATG	TACAGGAACG	CACATATATCT	TTCAAAAGATG
4741	ACGGGAACCTA	CAAGACGCGT	GCTGAAGTCA	AGTTTGAAGG	TGATACCCTT	GTTAATCGTA
4801	TCGAGTTAAA	AGGTATTGAT	TTTAAAGAAG	ATGGAACAT	TCTCGACAC	AAACTCGAGT
4861	ACAACTATAA	CTCACACAA	GTATACATCA	CGGCAGACAA	ACAAAAGAA	GGAACTCAAAG
4921	CTAACTTCAA	ATTTCGCCAC	AACATTGAAG	ATGGATCCGT	TCAACTAGCA	GACCATTATC
4981	AACAAATATC	TCCAATTGGC	GATGGCCCTG	TCCTTTTACC	AGCAACCAAT	TACCTGTGCA
5041	CACAATCTGC	CCTTTCGAAA	GATCCCAACG	AAAAGCGTGA	CCACATGGTC	GTCTTGGAGT
5101	TTGTAACTGC	TGCTGGGATT	ACACATGGCA	TGGATGCCAA	GTTGACCAGT	GGCGTTCGGG
5161	TGCTCACGCT	GCGGACGCTC	GCCGGAGCGG	TCGAGTTCTG	GACGACCGG	CTCGGGTTCT
5221	CCGGGCGACT	CGTGAGGAGC	GACTTCCGCG	GTGTGGTCCG	GGACGACGCT	ACCCTGTTCA
5281	TCAGCGCGCT	CACGACACCA	GTGGTGCCCG	ACAAACCCTC	GGCCTGGGTG	TGGGTGCGCG
5341	GCGTGGACGA	GCTGTACGCC	GAGTGGTCCG	AGGTCGTGTC	CACGAACCTC	CGGAGCGCCT
5401	CCGGGCGCGG	CATGACCGAG	ATCGGCGAGC	AGCCGTGGGG	GCGGGAGTTC	GCCCTGCGCG
5461	ACCCGCGCGG	CACCTGCGTG	CACCTTCGTG	CCGAGGAGCA	GGACTGTACAC	TGCACCTCGA
5521	AACTTGTGTTA	TTGACAGCTTA	TAATGGTTAC	AAATAAAGCA	ATAGCATCAC	AAATTTTACA
5581	AATAAGCAT	TTTTTTCAC	GCATTCTAGT	TGTGGTTTGT	CCAAATCAT	CAATGTATCT
5641	TATCATGTCT					

Figure 6-2

9/25

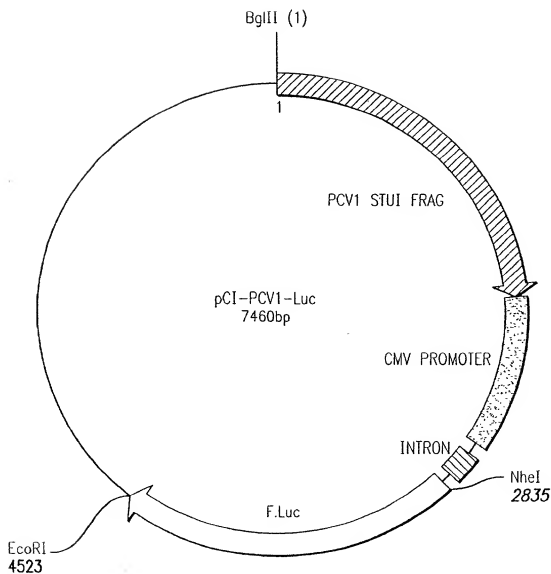


Figure 7

10/25

1 AGATCTAGGC CTGTGTGGTC GACATTGGTG TGGGTATTTA AATGGAGCCA CAGCTGGTTT
TCTAGATCCG GACACACCAG CTGTAACCAC ACCCATAAAT TTACCTCGGT GTCGACCAAA

61 CTTTATTAT TTGGCTGGAA CCAATCAATT GTTGTGCCA GCTCAGGTTT GGGGGTGAAG
GAAAATAATA AACCACCTT GGTAGTTAA CAAACCAGGT CGAGTCCAAA CCCCCACTTC

121 TACCTGGAGT GGTAGGTAAA GGGCTGCCTT ATGGTGTGGC GGGAGGAGTA GTTAATATAG
ATGGACCTCA CCATCCATT CCCGACGGAA TACCACACCG CCCTCCTCAT CAATTATATC

181 GGGTCATAGG CCAAGTTGGT GGAGGGGGTT ACAAAGTTGG CATCCAAGAT AACAGCAGTG
CCCAGTATCC GGTTCACCA CCTCCCCAA TGTTTCAACC GTAGGTTCTA TTGTCGTCAC

241 GACCCAACAC CTCTTTGATT AGAGGTGATG GGGTCTCTGG GGTAAAATTC ATATTTAGCC
CTGGGTGTG GAGAAACTAA TCTCCACTAC CCCAGAGACC CCATTTTAAAG TATAAATCGG

301 TTTCTAATAC GGTAGTATTG GAAAGGTAGG GGTAGGGGGT TGGTGCCGCC TGAGGGGGGG
AAAGATTATG CCATCATAAC CTTTCCATCC CCATCCCCA ACCACGGCGG ACTCCCCCC

361 AGGAAC TGGC CGATGTTGAA TCTGAGCTGG TTAACATTCC AAGATGGCTG CGAGTGTCTT
TCCTTGACCG GCTACAAC TT AGACTCGACC AATTGTAAGG TTCTACCGAC GCTCAGAGGA

421 CCTTCTATGG TGAGTACAAA TTCTTAGAA AGGCGGCAAT TGAAGATACC CGTCTTTCGG
GGAAGATACC ACTCATGTTT AAGAGATCTT TCCGCCGTTA ACTTCTATGG GCAGAAAGCC

481 CGCCATCTGT AACGGTTTCT GAAGGCGGGG TGTGCCAAAT ATGGTCTTCT CGGGAGGATG
GCGGTAGACA TTGCCAAGA CTTCCGCCCC ACACGGTTTA TACCAGAAGA CGCTCCTAC

541 TTTC AAGAT GGCTGCGGGG GCGGGTCTT CTTCTGCGGT AACGCCTCCT TGGCCACGTC
AAAGTTCTA CCGACGCCCC CGCCAGGAA GAAGACGCCA TTGCGGAGGA ACCGGTGCAG

601 ATCCTATAAA AGTGAAGAA GTGCGTGCT GTAGTATTAC CAGCGCACTT CGGCAGCGGC
TAGGATATTT TCAC TTTCTT CACGCGACGA CATCATAATG GTCGCGTGAA GCCGTCGCCG

661 AGCACCTCGG CAGCGTCGGT GAAAATGCCA AGCAAGAAAA GCGGCCCGCA ACCCCATAAG
TCGTGGAGCC GTCGCAGCCA CTTTACGGT TCGTCTTTT CGCCGGGCGT TGGGGTATTC

Figure 8-1

11/25

721 AGGTGGGTGT TCACCCTTAA TAATCCTTCC GAGGAGGAGA AAAACAAAT ACGGGAGCTT
TCCACCCACA AGTGGGAATT ATTAGGAAGG CTCCTCTCT TTTTGGTTTA TGCCTCGAA

781 CCAATCTCCC TTTTGTATTA TTTTGTGTC GGAGAGGAAG GTTTGGAAGA GGGTAGAACT
GGTTAGAGGG AAAAATAAT AAAACAAAG CCTCTCCTTC CAAACCTTCT CCCATCTGA

841 CCTCACCTCC AGGGGTTTGC GAATTTTGCT AAGAAGCAGA CTTTAAACAA GGTGAAGTGG
GGAGTGGAGG TCCCCAAACG CTTAAACGA TTCTTCGTCT GAAATTTGTT CCACTTCACC

901 TATTTTGGTG CCCGCTGCCA CATCGAGAAA GCGAAAGGAA CCGACCAGCA GAATAAGAA
ATAAAACCAC GGGCGACGGT GTAGCTCTTT CGCTTCCTT GGCTGGTCGT CTTATTTCTT

961 TACTGCAGCT CGAGTAAAGA AGGCCACATA CTTATCGAGT GTGGAGCTCC GCGGAACCAG
ATGACGTCGA CGTCATTTCT TCCGGTGTAT GAATAGCTCA CACCTCGAGG CGCCTTGGTC

1021 GGGAAAGCGCA GCGAAGTGT CACTGCTGTG AGTACCTTT TGGAGACGGG GTCTTTGGTG
CCCTTCGCGT CGCTGGACAG ATGACGACAC TCATGGGAAA ACCTCTGCCC CAGAAACCAC

1081 ACTGTAGCCG AGCACTTCCC TGTAACGTAT GTGAGAAATT TCCGCGGGCT GGCTGAACCT
TGACATCGGC TCGTCAAGGG ACATTGCATA CACTCTTTAA AGGCGCCCGA CCGACTTGAA

1141 TTGAAAGTGA GCGGGAAGAT GCAGCAGCGT GATTGGAAGA CAGCTGTACA CGTCATAGTG
AACTTTCCT CGCCCTTCTA CGTCGTCGCA CTAACCTTCT GTCGACATGT GCAGATACAC

1201 GGCCCGCCCG GTTGTGGGAA GAGCCAGTGG GCCCGTAATT TTGCTGAGCC TAGCGACACC
CCGGCGGGC CAACACCTT CTCGGTCACC CGGGCATTA AACGACTCGG ATCGCTGTGG

1261 TACTGGAAGC CTAGTAGAAA TAAGTGGTGG GATGGATATC ATGGAGAAGA AGTTGTTGTT
ATGACCTTCG GATCATCTTT ATTACCACCC CTACCTATAG TACCTCTTCT TCAACAACAA

1321 TTGGATGATT TTTATGGCTG GTTACCTTGG GATGATCTAC TGAGACTGTG TGACCGGTAT
AACTACTAA AAATACCGAC CAATGGAACC CTACTAGATG ACTCTGACAC ACTGCCATA

1381 CCATTGACTG TAGAGACTAA AGGGGGTACT GTTCCTTTTT TGGCCCGCAG TATTTTGATT
GGTAAGTAC ATCTCTGATT TCCCCATGA CAAGGAAAA ACCGGCGCTC ATAAAACTAA

1441 ACCAGCAATC AGGCCCCCA GGAATGGTAC TCCTCAACTG CTGTCACAGC TGTAGAAGCT

Figure 8-2

12/25

TGGTCGTTAG TCCGGGGGGT CCTTACCATG AGGAGTTGAC GACAGGGTCG ACATCTTCGA

1501 CTCTATCGGA GGATTACTAC TTTGCAATTT TGGAACTG CTGGAGAACA ATCCACGGAG
GAGATAGCCT CCTAATGATG AAACGTTAAA ACCTTCTGAC GACCTCTTGT TAGGTGCCTC

1561 GTACCCGAAG GCCGATTGTA AGCAGTGGAC CCACCTGTG CCCTTTTCCC ATATAAAAA
CATGGGCTTC CGGCTAAACT TCGTCACCTG GGTGGGACAC GGGAAAAGGG TATATTTTAT

1621 AATTACTGAG TCTTTTTTGT TATCACATCG TAATGGTTTT TATTTTTTATT CATTTAGAGG
TTAATGACTC AGAAAAAACA ATAGTGTAGC ATTACCAAAA ATAAAAATAA GTAAATCTCC

1681 GTCTTTTAGG ATAAATTCTC TGAATTGTAC ATAAATAGTC AGCCTTACCA CATAATTTTG
CAGAAAAATC TATTTAAGAG ACTTAACATG TATTATCAG TCGGAATGCT GTATTAATAAC

1741 GGCTGTGGCT GCATTTTGA GCGCATAGCC GAGGCCTGGA TCTTCAATAT TGCCATTAG
CCGACACCGA CGTAAACCT CCGGTATCGG CTCGGACCT AGAAGTTATA ACCGGTAATC

1801 CCATATTATT CATTGGTTAT ATAGCATAAA TCAATATTGG CTATTGGCCA TTGCATACGT
GGTATAATAA GTAACCAATA TATCGTATTT AGTTATAACC GATAACCGGT AACGTATGCA

1861 TGTATCTATA TCATAATATG TACATTTATA TTGGCTCATG TCCAATATGA CCGCCATGTT
ACATAGATAT AGTATTATAC ATGTAAATAT AACCGAGTAC AGGTTATACT GCGGTACAA

1921 GGCATTGATT ATTGACTAGT TATTAATAGT AATCAATTAC GGGGTCATTA GTTCATAGCC
CCGTAACATA TAACTGATCA ATAATTATCA TTAGTTAATG CCCAGTAAT CAAGTATCGG

1981 CATATATGGA GTTCCGCGTT ACATAACTTA CGGTAAATGG CCCGCCTGGC TGACCGCCCA
GTATATACCT CAAGCGCAA TGTATTGAAT GCCATTACC GGGCGGACCG ACTGGCGGGT

2041 ACGACCCCGG CCCATTGACG TCAATAATGA CGTATGTTCC CATAGTAACG CCAATAGGGA
TGCTGGGGGG GGGTAACATG AGTTATTACT GCATACAAGG GTATCATTCG GGTATCCCTT

2101 CTTTCCATTG ACGTCAATGG GTGGAGTATT TACGGTAAAC TGCCCACTTG GCAGTACATC
GAAAGGTAAC TGCAATTACC CACCTCATAA ATGCCATTG ACGGTTGAAC CGTCATGTAG

2161 AAGTGTATCA TATGCCAAGT CCGCCCCCTA TTGACGTCAA TGACGGTAAA TGGCCCGCCT
TTCACATAGT ATACGGTTCA GCGGGGGGAT AACTGCAGTT ACTGCCATTG ACCGGGCGGA

Figure 8-3

13/25

2221 GGCATTATGC CCAGTACATG ACCTTACGGG ACTTTCCTAC TTGGCAGTAC ATCTACGTAT
CCGTAATACG GGTACGTAC TGGAAATGCC TGAAAGGATG AACCGTCATG TAGATGCATA

2281 TAGTCATCGC TATTACCATG GTGATGCGGT TTTGGCAGTA CACCAATGGG CGTGGATAGC
ATCAGTAGCG ATAATGGTAC CACTACGCCA AAACCGTCAT GTGGTTACCC GCACCTATCG

2341 GGTTTGACTC ACGGGGATTT CCAAGTCTCC ACCCATTGA CGTCAATGGG AGTTTGTTTT
CCAAACTGAG TGCCCTAAA GGTTCAGAGG TGGGGTAACT GCAGTTACCC TCAACAAAA

2401 GGCACAAAA TCAACGGGAC TTTCCAAAAT GTCGTAATAA CCCC GCCCGG TTAGCGCAAA
CCGTGGTTTT AGTTGCCCTG AAAGGTTTTA CAGCATTATT GGGGCGGGG AACTGCGTTT

2461 TGGGCGGTAG GCGTGTACGG TGGGAGGTCT ATATAAGCAG AGCTCGTTTA GTGAACCGTC
ACCGGCCATC CGCACATGCC ACCCTCCAGA TATATTCTGC TCGAGCAAA CACTTGGCAG

2521 AGATCACTAG AAGCTTTATT GCGGTAGTTT ATCAGCTTA AATTGCTAAC GCAGTCAGTG
TCTAGTGATC TTCGAAATAA CGCCATCAAA TAGTGCAAT TTAACGATTG CGTCAGTCAC

2581 CTTCTGACAC AACAGTCTCG AACTTAAGCT CAGAAAGTTG GTCGTGAGGC ACTGGGCAGG
GAAGACTGTG TTGTCAGAGC TTGAATTGCA CGTCTCAAC CAGCACTCCG TGACCGCTCC

2641 TAAGTATCAA GGTTACAAGA CAGGTTAAG GAGACCAATA GAACTGGGC TTGTCGAGAC
ATTATAGATT CCAATGTCT GTCCAATTC CTCTGGTTAT CTTTGACCCG AACAGCTCTG

2701 AGAGAAGACT CTTGCGTTTC TGATAGGCAC CTATTGGTCT TACTGACATC CACTTTGCTT
TCTCTTCTGA GAACGCAAG ACTATCCGTG GATAACCAGA ATGACTGTAG GTGAAACGGA

2761 TTCTCTCCAC AGGTGTCCAC TCCCAGTTCA ATTACAGCTC TTAAGGCTAG AGTACTTAAT
AAGAGAGGTG TCCACAGGTG AGGGTCAAGT TAATGTCGAG AATTCCGATC TCATGAATTA

2821 ACGACTCACT ATAGGCTAGC AAGATCTCCT AGGAAGCTTT CCATGGAAGA CGCCAAAAAC
TGCTGAGTGA TATCCGATCG TTCTAGAGGA TCCTCGAAA GGTACCTTCT GCGGTTTTTG

2881 ATAAAGAAAG GCCCGCGGCC ATTCTATCCG CTGGAAGATG GAACCGCTGG AGAGCAACTG
TATTCTTTTC CGGGCCGCGG TAAGATAGGC GACCTTCTAC CTTGGCGACC TCTCGTTGAC

2941 CATAAGGCTA TGAAGAGATA CGCCCTGGTT CCTGGAACAA TTGCTTTTAC AGATGCACAT
GTATTCCGAT ACTTCTCTAT GCGGGACCAA GGACCTTGT AACGAAATG TCTACGTGTA

Figure 8-4

14/25

3001 ATCGAGGTGG ACATCACTTA CGCTGAGTAC TTCGAAATGT CCGTTCGGTT GGCAGAAGCT
TAGCTCCACC TGTAGTGAAT GCGACTCATG AAGCTTTACA GGCAAGCCAA CCGTCTTCGA

3061 ATGAAACGAT ATGGGCTGAA TACAAATCAC AGAATCGTCG TATGCAGTGA AAACCTCTCTT
TACTTTGCTA TACCCGACTT ATGTTTAGTG TCTTAGCAGC ATACGCTACT TTTGAGAGAA

3121 CAATTCTTTA TGCCGGTGTG GGGCGCGTTA TTTATCGGAG TTGCAGTTGC GCCCGCGAAC
GTTAAGAAAT ACGGCCACAA CCCGCGCAAT AAATAGCCTC AACGTCAACG CGGGCGCTTG

3181 GACATTTATA ATGAACGTGA ATTGCTCAAC AGTATGGGCA TTTGCGAGCC TACCGTGGTG
CTGTAATAT TACTTGCACT TAACGAGTTG TCATACCCGT AAAGCGTCGG ATGGCACACC

3241 TTCGTTTCCA AAAAGGGGTT GCAAAAAATT TTGAACGTGC AAAAAAGCT CCCAATCATC
AAGCAAAGT TTTTCCCAA CGTTTTTAA AACTTGCACG TTTTTCGA GGGTTAGTAG

3301 CAAAAATTA TTATCATGGA TTCTAAACG GATTACCAGG GATTTCAGTC GATGTACACG
GTTTTTAAAT AATAGTACCT AAGATTTCG CTAATGGTCC CTAAGTCAG CTACATGTGC

3361 TTCGTCACTC CTCATCTACC TCCCGTTTT AATGAATACG ATTTTGTGCC AGAGTCCTTC
AAGCAGTGTA GAGTAGATGG AGGGCCAAAA TTACTTATGC TAAACACGG TCTCAGGAAG

3421 GATAGGGACA AGACAATTGC ACTGATCATG AACTCCTCTG GATCTACTGG TCTGCCTAAA
CTATCCCTGT TCTGTTAACG TGACTAGTAC TTGAGGAGAC CTAGATGACC AGACGGATTT

3481 GGTGTCGCTC TGCCCTCATAG AACTGCCTGC GTGAGATTCT CGCATGCCAG AGATCCTATT
CCACAGCGAG ACGGAGTATC TTGACGGACG CACTCTAAGA GCGTACGGTC TCTAGGATAA

3541 TTTGGCAATC AAATCATTCC GGATACTGCG ATTTTAAGTG TTGTCCATT CCATCACGGT
AAACCGTTAG TTTAGTAAGG CCTATGACGC TAAATTCAC AACAAGGTAA GGTAGTGCCA

3601 TTTGGAATGT TTACTACACT CGGATATTTG ATATGTGGAT TTGAGTCGT CTTAATGTAT
AAACCTTACA AATGATGTGA GCCTATAAAC TATACACCTA AAGCTCAGCA GAATTACATA

3661 AGATTTGAAG AAGAGCTGTT TCTGAGGAGC CTTCAGGATT ACAAGATTCA AAGTGCCTG
TCTAAACTTC TTCTGCACAA AGACTCCTCG GAAGTCCTAA TGTTCCTAAGT TTCACGCGAC

3721 CTGGTGCCAA CCCTATTCTC CTTCTTCGCC AAAAGCACTC TGATTGACAA ATACGATTTA

Figure 8-5

15/25

GACCACGGTT GGGATAAGAG GAAGAAGCGG TTTTCGTGAG ACTAAGTGT TATGCTAAAT

3781 TCTAATTTAC ACGAAATTGC TTCTGGTGGC GCTCCCCTCT CTAAGGAAGT CGGGGAAGCG
AGATTAAATG TGCTTTAAGC AAGACCACCG CGAGGGGAGA GATTCTCTCA GCCCCTTCGC

3841 GTTGCCAAGA GGTTCATCT GCCAGGTATC AGGCAAGGAT ATGGGCTCAC TGAGATACA
CAACGGTTCT CCAAGGTAGA CGGTCCATAG TCCGTTCTTA TACCCGAGTG ACTCTGATGT

3901 TCAGCTATTC TGATTACACC CGAGGGGGAT GATAAACCGG CGCGGCTCGG TAAAGTTGTT
AGTCGATAAG ACTAATGTGG GCTCCCCCTA CTATTGGGCC CGCGCCAGCC ATTTCAACAA

3961 CCATTTTTTG AAGCGAAGGT TGTGGATCTG GATACCGGGA AAACGCTGGG CGTTAATCAA
GGTAAAAAC TTCGCTTCCA ACACCTAGAC CTATGGCCCT TTTGCGACCC GCAATTAGTT

4021 AGAGGCGAAC TGTGTGTGAG AGGTCCTATG ATTATGTCCG GTTATGTAAA CAATCCGGAA
TCTCCGCTTG ACACACACTC TCCAGGATAC TAATACAGGC CAATACATTT GTTAGGCCTT

4081 GCGACCAACG CCTTGATTGA CAAGGATGGA TGGCTACATT CTGGAGACAT AGCTTACTGG
CGCTGGTTGC GGAACTAAC TGTCTACCT ACCGATGTAA GACCTCTGTA TCGAATGACC

4141 GACGAAGACG AACACTTCTT CATCGTTGAC CGCCTGAAGT CTCTGATTAA GTACAAAGGC
CTGCTTCTGC TTGTGAAGAA GTAGCAACTG GCGGACTTCA GAGACTAATT CATGTTTCCG

4201 TATCAGGTGG CTCCCCTGA ATTGGAATCC ATCTTGCTCC AACACCCCAA CATCTTCGAC
ATAGTCCACC GAGGGCGACT TAACCTTAGG TAGAACGAGG TTGTTGGGTT GTAGAAGCTG

4261 GCAGGTGTGC CAGGTCTTCC CGACGATGAC GCCGGTGAAC TTCCC GCCG CGTTGTTGTT
CGTCCACAGC GTCCAGAAGG GCTGCTACTG CGGCCACTTG AAGGGCGCGC GCAACAACAA

4321 TTGGAGCAGC GAAAGACGAT GACGAAAAA GAGATCGTGG ATTACGTGCG CAGTCAAGTA
AACCTCGTGC CTTTCTGCTA CTGCCTTTTT CTCTAGCACC TAATGACGCG GTCAGTTTCT

4381 ACAACCGCGA AAAAGTTGCG CGGAGGAGTT GTGTTTGTGG ACGAAGTACC GAAAGGTCTT
TGTTGGCGCT TTTTCAACGC GCCTCTCAA CACAAACACC TGCTTCATGG CTTTCCAGAA

4441 ACCGGAAAA TCGACGCAAG AAAAATCAGA GAGATCTCTA TAAAGGCCAA GAAGGGCGGA
TGCCCTTTTG AGCTGCGTTC TTTTGTAGTCT CTCTAGGAGT ATTTCCGGTT CTTCCCGCCT

Figure 8-6

16/25

4501 AAGATCGCCG TGTAATTCTA GAGAATTCAC GCGTGGTACC TCTAGAGTCG ACCCGGGCGG
TTCTAGCGGC ACATTAAGAT CTCTTAAGTG CGCACCATGG AGATCTCAGC TGGGCCCGCC

4561 CCGCTTCGAG CAGACATGAT AAGATACATT GATGAGTTTG GACAAACCAC AACTAGAATG
GGCGAAGCTC GTCTGTACTA TTCTATGTAA CTACTCAAC CTGTTTGGTG TTGATCTTAC

4621 CAGTGAAAAA AATGCTTTAT TTGTGAAATT TGTGATGCTA TTGCTTTATT TGTAACCATT
GTCACTTTTT TTACGAAATA AACACTTTAA ACACTACGAT AACGAAATAA ACATTGGTAA

4681 ATAAGTCGCA ATAAACAAGT TAACAACAAC AATTGCATTC ATTTTATGTT TCAGGTTACG
TATTCGACGT TATTTGTTC AATTGTTGTT TTAACGTAAG TAAAATACAA AGTCCAAGTC

4741 GGGGAGATGT GGGAGGTTTT TTAAAGCAAG TAAACCTCT ACAAATGTGG TAAATCGAT
CCCCTCTACA CCCTCCAAAA AATTTCTGTC ATTTTGGAGA TGTTTACACC ATTTTAGCTA

4801 AAGGATCCGG GCTGGCGTAA TAGCGAAGAG GCCCGCACCG ATCGCCCTTC CCAACAGTTG
TTCTTAGGCC CGACCGCATT ATCGCTTCTC CGGGCGTGGC TAGCGGGAGG GGTGTGCAAC

4861 CGCAGCCTGA ATGCGCAATG GACGCGCCCT GTAGCGGCGC ATTAAGCGCG GCGGGTGTGG
GCGTCGGA CTACCGCTTAC CTGCGCGGGA CATCGCCGCG TAATTCGCGC GCGCCACACC

4921 TGGTTACGCG CAGCGTGACC GCTACACTTG CCAGCGCCCT AGCGCCCGCT CTTTCGCTT
ACCAATGCGC GTCGCACTGG CGATGTGAAC GGTGCGGGGA TCGCGGGCGA GGAAGCGAA

4981 TCTTCCCTTC CTTTCTCGCC ACGTTCGCGG GCTTTCCCGG TCAAGCTCTA AATCGGGGGC
AGAAGGGAAG GAAAGAGCGG TGCAAGCGGC CGAAAGGGGC AGTTCGAGAT TTAGCCCCCG

5041 TCCCTTTAGG GTTCCGATTT AGTGCTTTAC GGCACCTCGA CCCCCAAAAA CTTGATTAGG
AGGGAAATCC CAAGGCTAAA TCACGAAATG CCGTGGAGCT GGGGTTTTTT GAACTAATCC

5101 GTGATGGTTC ACGTAGTGGG CCATCGCCCT GATAGACGGT TTTTCGCCCT TTGACGTTGG
CACTACCAAG TGCATCACCC GGTAGCGGGA CTATCTGCCA AAAAGCGGGA AACTGCAACC

5161 AGTCCACGTT CTTTAATAGT GGACTCTTGT TCCAACTGG AACAACTC AACCCTATCT
TCAGGTGCA GAAATTATCA CCTGAGAACA AGGTTTGACC TTGTTGTGAG TTGGGATAGA

5221 CGGTCTATTC TTTTGATTTA TAAGGGATTT TGCCGATTTT GGCTATTGG TTAATAAATG
GCCAGATAAG AAAACTAAAT AATCCCTAAA ACGGCTAAAG CCGGATAACC AATTTTTTAC

Figure 8-7

17/25

5281 AGCTGATTTA AAAAAATTT AACGGAATT TTAACAAAT ATTAACGCTT ACAATTCCT
TCGACTAAAT TGTTTTTAA TTGCGCTTAA AATTGTTTTA TAATTGCGAA TGTTAAAGGA

5341 GATGCGGTAT TTTCTCCTTA CGCATCTGTG CGGTATTTCA CACCGCATAT GGTGCACTCT
CTACGCCATA AAAGAGGAAT GCGTAGACAC GCCATAAAGT GTGGCGTATA CCACGTGAGA

5401 CAGTACAATC TGCTCTGATG CCGCATAGTT AAGCCAGCCC CGACACCCGC CAACACCCGC
GTCATGTTAG ACGAGACTAC GGCATATCAA TTCGGTCGGG GCTGTGGGCG GTTGTGGGCG

5461 TGACGCGCCC TGACGGGCTT GTCTGCTCCC GGCATCCGCT TACAGACAAG CTGTGACCGT
ACTGCGCGGG ACTGCCGAA CAGACGAGGG CCGTAGCGA ATGTCGTTC GACACTGGCA

5521 CTCGGGAGC TGCATGTGTC AGAGGTTTTC ACCGTATCA CCGAAACGCG CGAGACGAAA
GAGGCCCTCG ACGTACACAG TCTCCAAAAG TGGCAGTAGT GGCTTTCGCG GCTCTGCTTT

5581 GGGCCTCGTG ATACGCCCTAT TTTTATAGGT TAATGTCATG ATAATAATGG TTTCTTAGAC
CCGGAGCAC TATGCGGATA AAAATATCCA ATTACAGTAC TATTATTACC AAAGAATCTG

5641 GTCAGGTGGC ACTTTTCGGG GAAATGTGCG CGGAACCCCT ATTTGTTTAT TTTTCTAAAT
CAGTCCACCG TGAAGGCC CTTTACACGC GCCTTGGGGA TAAACAAATA AAAAGATTTA

5701 ACATTCAAAT ATGTATCCGC TCATGAGACA ATAACCCCTGA TAAATGCTTC AATAATATTG
TGTAAGTTTA TACATAGCGC AGTACTCTGT TATTGGGACT ATTTACGAAG TTATTATAAC

5761 AAAAAGGAAG AGTATGAGTA TTCAACATTT CCGTGTGCGC CTTATTCCCT TTTTTCGGCG
TTTTTCTCTC TCATATCAT AAGTTGTAAA GGCACAGCGG GAATAAGGGA AAAACGCCG

5821 ATTTTGCCCT CCTGTTTTTG CTCACCCAGA AACGCTGGTG AAAGTAAAG ATGCTGAAGA
TAAACGGAA GGACAAAAA GAGTGGGTCT TTGCGACCAC TTTCATTTTC TACGACTTCT

5881 TCAGTTGGGT GCACGAGTGG GTTACATCGA ACTGGATCTC AACAGCGGTA AGATCCTTGA
AGTCAACCCA CGTGCTCACC CAATGTAGCT TGACCTAGAG TTGTCGCCAT TCTAGGAATC

5941 GAGTTTTCGC CCCGAAGAAC GTTTTCCAAT GATGAGCACT TTTAAAGTTC TGCTATGTGG
CTCAAAAGCG GGGCTTCTTG CAAAAGGTTA CTACTCGTA AAATTTCAG ACGATACACC

6001 CGCGGTATTA TCCCGTATTG ACGCGGGCA AGAGCAACTC GGTCGCCGCA TACACTATTC

Figure 8-8

18/25

GCGCCATAAT AGGGCATAAC TGCGGCCCGT TCTCGTTGAG CCAGCGGCGT ATGTGATAAG
 6061 TCAGAATGAC TTGGTTGAGT ACTCACCAGT CACAGAAAG CATCTTACGG ATGGCATGAC
 AGTCTTACTG AACCAACTCA TGAGTGGTCA GTGTCTTTTC GTAGAATGCC TACCGTACTG
 6121 AGTAAGAGAA TTATGCAGTG CTGCCATAAC CATGAGTGAT AACACTGCGG CCAACTTACT
 TCATTCTCTT AATACGTCAC GACGGTATTG GTACTCACTA TTGTGACGCC GGTGTAATGA
 6181 TCTGACAACG ATCGGAGGAC CGAAGGAGCT AACCGCTTTT TTGCACAACA TGGGGGATCA
 AGACTGTGTC TAGCCTCCTG GCTTCCTCGA TTGGCGAAAA AACGTGTTGT ACCCCCTAGT
 6241 TGTAAC TCGC CTTGATCGTT GGAACCGGA GCTGAATGAA GCCATACCAA ACGACGAGCG
 ACATTGAGCG GAACTAGCAA CCCTTGGCCT CGACTTACTT CGGTATGTTT TGTGCTCGC
 6301 TGACACCACG ATGCCTGTAG CAATGGCAAC AACGTTCGCG AAAC TATTAA CTGGCGAACT
 ACTGTGGTGC TACGGACATC GTTACCGTTG TTGCAACGCG TTTGATAATT GACCGCTTGA
 6361 ACTTACTCTA GCTTCCCGGC AACAAATTAAT AGACTGGATG GAGGCGGATA AAGTTGCAGG
 TGAATGAGAT CGAAGGGCCG TTGTTAATTA TCTGACCTAC CTCCGCCAT TTAACGTCC
 6421 ACCACTTCTG CGCTCGGCC TTCCGGCTGG CTGGTTTATT GCTGATAAAT CTGGAGCCGG
 TGGTGAAGAC GCGAGCCGGG AAGGCCGACC GACCAAAATA CGACTATTTA GACCTCGGCC
 6481 TGAGCGTGGG TCTCGGGTA TCATTGCAGC ACTGGGGCCA GATGGTAAGC CCTCCCGTAT
 ACTCGCACCC AGAGCGCCAT AGTAACGTCG TGACCCCGGT CTACCATTCG GGAGGGCATA
 6541 CGTAGTTATC TACACGACGG GGAGTCAGGC AACTATGGAT GAACGAAATA GACAGATCGC
 GCATCAATAG ATGTGCTGCC CCTCAGTCCG TTGATACCTA CTGTCTTTAT CTGTCTAGCG
 6601 TGAGATAGGT GCCTCACTGA TTAAGCATTG GTAACGTCA GACCAAGTTT ACTCATATAT
 ACTCTATCCA CGGAGTGACT AATTGTAAC CATTGACAGT CTGGTTCAAA TGAGTATATA
 6661 ACTTTAGATT GATTTAAAC TTCATTTTTA ATTTAAAGG ATCTAGGTGA AGATCCTTTT
 TGAATCTAA CTAATTTTG AAGTAAAAAT TAAATTTTCC TAGATCCACT TCTAGGAAAA
 6721 TGATAATCTC ATGACCAAAA TCCCTTAACG TGAGTTTTCTG TTCCACTGAG CGFCAGACCC
 ACTATTAGAG TACTGGTTTT AGGGAATTGC ACTCAAAAGC AAGGTGACTC GCAGTCTGGG

Figure 8-9

19/25

6781 CGTAGAAAAG ATCAAAGGAT CTTCTTGAGA TCCTTTTTTT CTGCGCGTAA TCTGCTGCTT
GCATCTTTTC TAGTTTCTTA GAAGAACTCT AGGAAAAAAA GACGCGCATT AGACGACGAA

6841 GCAAAACAAA AAACCACCGC TACCAGCGGT GGTGTTGTTG CCGGATCAAG AGCTACCAAC
CGTTTGTTTT TTTGGTGGCG ATGGTCGCCA CCAAAACAAAC GGCCTAGTTC TCGATGGTTG

6901 TCTTTTTCCG AAGGTAAGTG GCTTCAGCAG AGCGCAGATA CCAATACTG TTCTTCTAGT
AGAAAAAGGC TTCCATTGAC CGAAGTCGTC TCGGCTCTAT GGTATTATGAC AAGAAGATCA

6961 GTAGCCGTAG TTAGGCCACC ACTTCAAGAA CTCTGTAGCA CCGCTACAT ACCTCGCTCT
CATCGGCATC AATCCGGTGG TGAAGTTCTT GAGACATCGT GCGGATGTA TGGAGCGAGA

7021 GCTAATCCTG TTACCACTGG CTGCTGCCAG TGGCGATAAG TCGTGTCTTA CCGGGTTGGA
CGATTAGGAC AATGGTCACC GACGACGTC ACCGCTATTC AGCACAGAAT GGCCCAACCT

7081 CTCAAGACGA TAGTTACCGG ATAAGGCGCA GCGTCGGGC TGAACGGGGG GTTCGTGCAC
GAGTTCTGCT ATCAATGGCC TATTCCGCGT CGCCAGCCCG ACTTGCCCCC CAAGCACGTG

7141 ACAGCCCAGC TTGGAGCGAA CGACCTACAC CGAACTGAGA TACCTACAGC GTGAGCTATG
TGTGCGGTCG AACCTCGCTT GCTGGATGTG GCTTGACTCT ATGGATGTCG CACTCGATAC

7201 AGAAAGCGCC ACGCTTCCCG AAGGGAGAAA GCGGACAGG TATCCGGTAA GCGGCAGGGT
TCTTTCGCGG TGCAGAGGCG TTCCCTCTTT CCGCTGTCC ATAGGCCATT GCCTGCTCCA

7261 CGGAACAGGA GAGCGCACGA GGGAGCTTCC AGGGGGAAC GCCTGGTATC TTTATAGTCC
GCCTTGCTCT CTCGCGTGCT CCCTCGAAGG TCCCTCTTTG CGGACCATAG AAATATCAGG

7321 TGTCGGGTTT CGCCACCTCT GACTTGAGCG TCGATTITTT TGATGCTCGT CAGGGGGGCG
ACAGCCCAAA GCGGTGGAGA CTGAAGTCGC AGCTAAAAAC ACTACGAGCA GTCCCCCGC

7381 GAGCCTATGG AAAACGCCA GCAACGCGGC CTTTTACGG TTCCTGGCCT TTTGCTGGCC
CTCGGATACC TTTTGGCGGT CGTTGCGCGG GAAAAATGCC AAGGACCGGA AAACGACCGG

7441 TTTTGCTCAC ATGGCTCGAC
AAAACGAGTG TACCGAGCTG

Figure 8-10

20/25

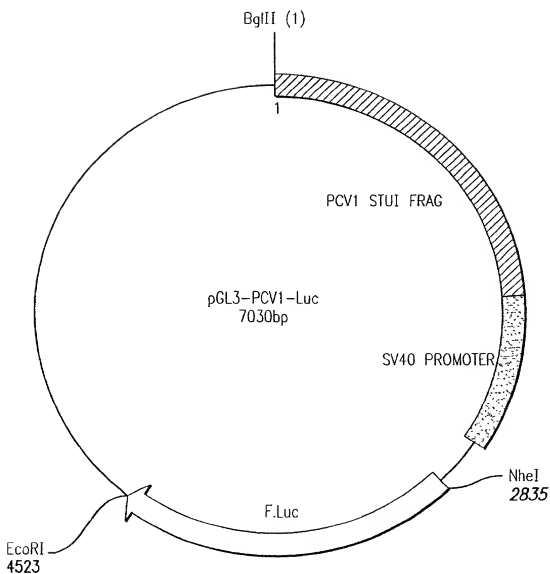


Figure 9

21/25

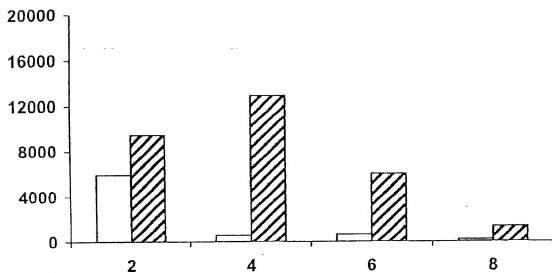


Figure 10A

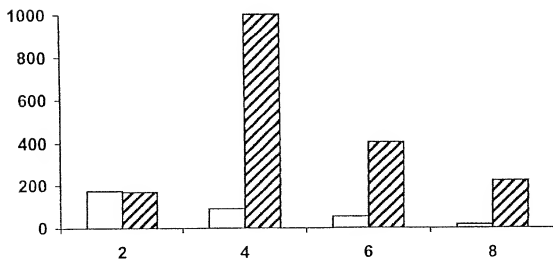


Figure 10B

22/25

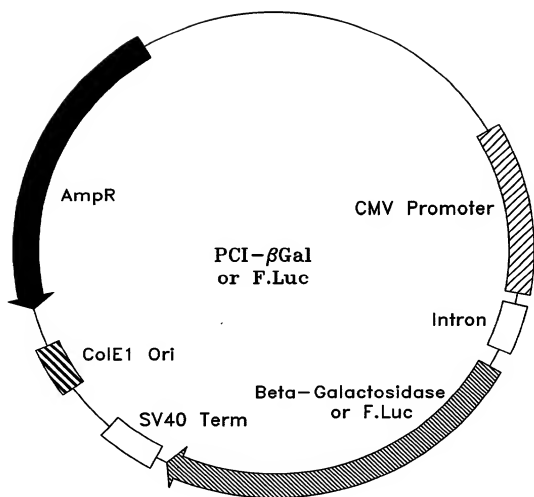


Figure 11A

23/25

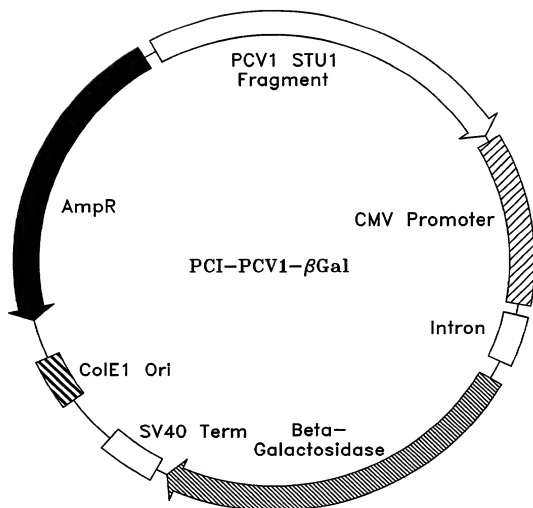


Figure 11B

24/25

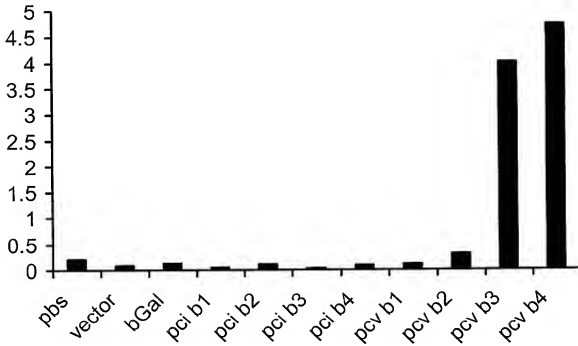


Figure 12A

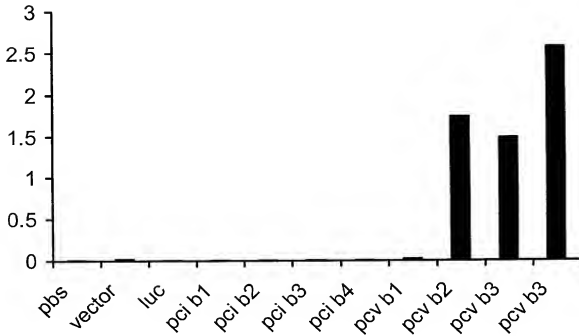


Figure 12B

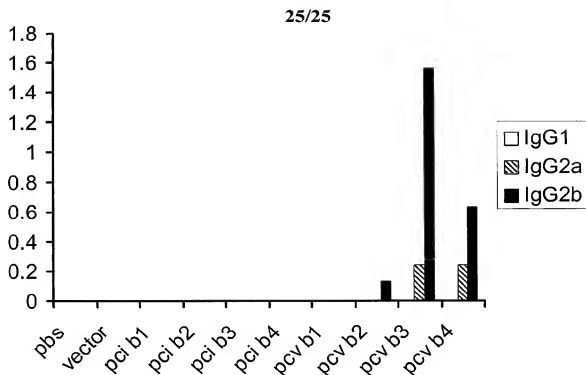


Figure 13A

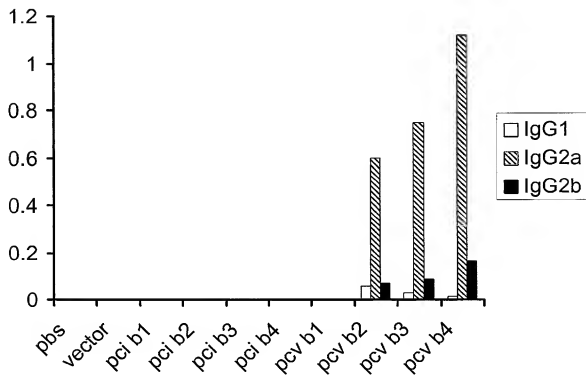


Figure 13B